

01 a polyalkene. The polyalkene from which the hydrocarbyl-substituent groups are derived is characterized by a \overline{M}_n (number average molecular weight) value. Since the substituent as a whole is normally a mixture of individual chains of varying lengths, these substituent groups are characterized by having not more than 20 mole percent, preferably not more than 15 mole percent and most preferably not more than 10 mole percent of individual substituent chains with a \overline{M}_n of less than 500. Typically the substituent groups as a whole will have a \overline{M}_n value of 1000 to 10,000, preferably 1300, 1500, or 2000 to 5000. Most preferably the \overline{M}_n is at least 2000. In another highly favored embodiment, the substituent groups will contain not more than 5 mole percent of substituent groups which have a \overline{M}_n of below 300.

In the claims:

Amend claims 1 and 28 to read as shown:

1. (three times amended) A composition suitable for reducing engine sludge and degradation of elastomer seals comprising
a major amount of an oil of lubricating viscosity and
a minor amount of a nitrogen-containing dispersant wherein the nitrogen containing dispersant is a reaction product of

02 (I) a hydrocarbyl-substituted succinic acylating agent, wherein 15 to about 20 mole percent of the individual molecules thereof have a hydrocarbyl substituent with a molecular weight of less than 500; wherein the hydrocarbyl substituent is a polymeric species consisting essentially of olefin monomer units of at least 3 carbon atoms; and

(II) at least one polyamine, wherein the polyamine is

- (a) a polyalkylene amine containing at least one H-N< group; or
(b) a condensate of (i) a polyalkylene amine containing at least one H-N< group with (ii) at least one alcohol containing at least one ether group, amine group, nitro group, or additional alcohol group;

wherein in said polyamine (a) or condensed polyamine (b) no more than about 20 mole percent of the molecules contain 6 or fewer nitrogen atoms.

28. (three times amended) A composition suitable for reducing engine sludge and degradation of elastomer seals comprising

03 a major amount of an oil of lubricating viscosity and
a minor amount of a nitrogen-containing dispersant wherein the nitrogen containing dispersant is a reaction product of

(I) a hydrocarbyl-substituted succinic acylating agent wherein the hydrocarbyl substituent is prepared from a polymeric species consisting essentially of olefin monomer units of at least 3 carbon atoms and wherein 15 to about 20 mole percent of the individual molecules of said polymeric species have a molecular weight of less than 500; and

03,

(II) at least one polyamine, wherein the polyamine is

- (a) a polyalkylene amine containing at least one H-N< group; or
- (b) a condensate of (i) a polyalkylene amine containing at least one H-N< group with (ii) at least one alcohol containing at least one ether group, amine group, nitro group, or additional alcohol group;

wherein in said polyamine (a) or condensed polyamine (b) no more than about 20 mole percent of the molecules contain 6 or fewer nitrogen atoms.

Cancel claim 29.